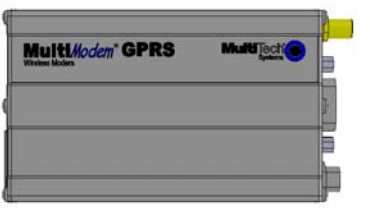
MultiModem® GPRS
Wireless Modem
MTCBA-G-F4



Quick Start Guide

MultiTech® Systems

Quick Start
MultiModem® GPRS
Wireless Modem
MTCBA-G-F4 (82100326L, Revision B)

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Record of Revisions

Revision	Date	Description
A	10/03/07	Initial release of F4. New PN in order to have GPRS-F4 in a separate guide (previously GPRS and CDMA were combined in 82001227L).
B	11/05/08	Added Windows server 2008. Updated drawings. Added how to change the GPRS band.

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Introduction

This guide shows you how to set up your Multi-Tech wireless MultiModem. For detailed information, product specifications, troubleshooting tips, and more, see the User Guide, available on the MultiModem CD accompanying your wireless modem.

General Safety

The modem is designed for and intended to be used in fixed and mobile applications. “Fixed” means that the device is physically secured at one location and is not able to be easily moved to another location. In a “Mobile” application, the device may be moved regularly from one location to another.

Caution: Maintain a separation distance of at least 20 cm (8 inches) between the transmitter’s antenna and the body of the user or nearby persons. The modem is not designed for, nor intended to be, used in applications within 20 cm (8 inches) of the body of the user.

RF Interference Issues

Avoid possible radio frequency (RF) interference by carefully following the safety guidelines below.

- Switch OFF the MultiModem when in an aircraft. The use of cellular telephones in aircraft is illegal. It may endanger the operation of the aircraft and/or disrupt the cellular network. Failure to observe this instruction may lead to suspension or denial of cellular services to the offender, legal action, or both.
- Switch OFF the MultiModem in the vicinity of gasoline or diesel-fuel pumps or before filling a vehicle with fuel.
- Switch OFF the MultiModem in hospitals and any other place where medical equipment may be in use.
- Respect restrictions on the use of radio equipment in fuel depots, chemical plants, or in areas of blasting operations.
- There may be a hazard associated with the operation of your MultiModem in the vicinity of inadequately protected personal medical devices such as hearing aids and pacemakers. Consult the manufacturers of the medical device to determine if it is adequately protected.

- Operation of the MultiModem in the vicinity of other electronic equipment may cause interference if the equipment is inadequately protected. Observe any warning signs and manufacturers' recommendations.

Installation Instructions and Hazardous Locations Warnings

1. The modems are open devices intended for installation in an ultimate enclosure suitable for the intended application.
2. THIS EQUIPMENT IS SUITABLE FOR USE IN CLASS I, DIVISION 2, GROUPS A, B, C, AND D OR NON-HAZARDOUS LOCATIONS ONLY.
3. "WARNING – Explosion Hazard – Substitution of Components may Impair Suitability for Class I Division 2".
4. "WARNING – Explosion Hazard – Do not Disconnect Equipment Unless Power has been switched off or the area is known to be Non-Hazardous".
5. "WARNING – Explosion Hazard – Do not replace the fuse unless power has been switched off or the area is known to be Non-Hazardous".
6. "WARNING – Do not install or remove SIM card unless power is switched off or the area is known to be Non-Hazardous".

Vehicle Safety

- Do not use your Wireless MultiModem while driving, unless equipped with a correctly installed vehicle kit allowing 'Hands-Free' Operation.
- Respect national regulations on the use of cellular telephones in vehicles. Road safety always comes first.
- If incorrectly installed in a vehicle, the operation of Wireless MultiModem telephone could interfere with the correct functioning of vehicle electronics. To avoid such problems, be sure that qualified personnel have performed the installation. Verification of the protection of vehicle electronics should be part of the installation.
- The use of an alert device to operate a vehicle's lights or horn on public roads is not permitted.

Package Contents

Unbundled Package Modem with No Accessories	Bundled Package Modem with Accessories
1 modem 1 mounting bracket 1 fused DC power cable 1 Quick Start Guide 1 MultiModem CD **Note:** You must supply bracket screws and an antenna.	1 modem 1 mounting bracket 1 antenna 1 serial cable 1 DC power supply/cable (varies) 4 Rubber feet for flat surface mounting 1 Quick Start Guide 1 MultiModem CD **Note:** You must supply bracket screws.

Notes:

- Your wireless provider will supply the SIM card.
- See the User Guide for antenna specifications.

Activate Your Wireless Account

Please see the wireless account Activation Notices located on the MultiModem CD. Choose the one for your wireless network provider and follow the directions to activate your account.

Phone Numbers for the Wireless Modem

Every wireless modem will have its own unique phone number. The phone number may simply be given to you by your wireless service provider. It may also be on the SIM card. Wireless provider implementations may vary.

Insert the SIM Card into the SIM Card Slot

The wireless modem requires a SIM card (Subscriber Identity Module) to operate on a GPRS network. To install the SIM card:

1. Using your fingernail or small screwdriver, pry off SIM cover.
2. Insert the SIM card into the SIM card slot. The graphic below illustrates the correct SIM card orientation.
3. Check to see that the SIM card fits properly; then replace the cover.

SIM Card Orientation

Hook up the Antenna, Serial Cable, and Power

- **Antenna.** Connect a suitable antenna to the SMA connector (see the User Guide for antenna/RF specifications).
- **Serial Cable.** Connect one end of the serial cable to the modem and the other end to a PC.
- **Power for Standard Transformer Power Supply:**
  - Connect the AC cord to its transform block and then plug into a power outlet.

- **Note:** Units shipped with the universal AC power supply are not suited for installation in hazardous locations.

- **Optional Direct DC Power Connection:**
  See the User Guide for views of the cable, hook up directions and other information.

Modem Driver Installation

Compatibility: The wireless MultiModem is compatible with Windows Server 2008, Windows Vista, XP, 2003, and Linux.

Windows: To load the wireless modem's driver onto your PC, select the Control Panel's *Phone and Modem Options* option. During this installation, you will be required to browse the MultiModem CD to load the modem's INF file (located at the CD's root directory). See the User Guide for a description of each step.

Linux: Linux does not require a driver for serial modems.

Changing the GPRS Band

All MultiModem GPRS-F4 wireless modems support quad band. The modems are available in two build options: one defaulting to 850/1900MHz and one defaulting to 900/1800MHz.

If for any reason, such as changing the geographical area in which you use your modem, you want to change the band, you can accomplish it by using the **+WMBS** AT Command.

Changing the Band:

Use a terminal application such as HyperTerminal to enter the AT Command: **AT+WMBS=4,0**.

For accessing HyperTerminal and further instructions, see the User Guide.

AT Commands

AT commands can be used to operate, configure, and query your modem. The GPRS AT Command Reference Guide is included on the MultiModem CD and on the Multi-Tech Web site.

Internet Access

See the User Guide for Internet access directions.

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